



SEQUENCE LISTING

<110> HYBRIDGENETICS

Pierre, LEGRAIN

<120> Identification of the Anti-s28 Factor in Helicobacter pylori, in Campylobacter jejuni and in Pseudomonas aeruginosa and Application Thereof

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<141> 2002-01-31

<150> US 60/265,465

<151> 2001-01-31

<160> 29

<170> PatentIn version 3.1

<210> 1

<211> 90

<212> DNA

<213> Helicobacter pylori

<220>

<221> SID1122

<222> (1)..(90)

<223> the Selected Interacting Domain (SID[®]) of HP1122

<400> 1

atcaagaaag cgattaaaaa taaccagtat aaaatcaact tgcgtgagac ttctcacaaa

60

atggcaaagg atttattggg gataagctag 90

<210> 2

<211> 29

<212> PRT

<213> Helicobacter pylori

<220>

<221> SID1122

<222> (1)..(29)

<223>

<400> 2

Ile Lys Lys Ala Ile Glu Asn Asn Gln Tyr Lys Ile Asn Leu His Glu
1 5 10 15

Thr Ser His Lys Met Ala Lys Asp Leu Leu Gly Ile Ser
20 25

<210> 3

<211> 177

<212> DNA

<213> Helicobacter pylori

<220>

<221> SID1032

<222> (1)..(177)

<223> the Selected Interacting Domain (SID®) HP1032

<400> 3
aaagcgctga atcaaatgag cgaaagagag caaatcctta tccagcttta ttactttgaa 60
gagttgaatt tgagcgagat taaagagatt ttaggcatta ctgaatcgcg catttctcaa 120
atcattaaag aagtgattaa aaaggtgcgt aaatccttag gagtggatca tggctga 177

<210> 4
<211> 58
<212> PRT
<213> Helicobacter pylori

<220>
<221> SID1032
<222> (1)..(58)
<223>

<400> 4
Lys Ala Leu Asn Gln Met Ser Glu Arg Glu Gln Ile Leu Ile Gln Leu
1 5 10 15

Tyr Tyr Phe Glu Glu Leu Asn Leu Ser Glu Ile Lys Glu Ile Leu Gly
20 25 30

Ile Thr Glu Ser Arg Ile Ser Gln Ile Ile Lys Glu Val Ile Lys Lys
35 40 45

Val Arg Lys Ser Leu Gly Val Asp His Gly
50 55

<210> 5
<211> 231
<212> DNA
<213> Helicobacter pylori

<220>
<221> HP1122
<222> (1)..(231)
<223> the ORF of sigma28 factor

<400> 5
atgaatatca aattaaagga ttttacaatg attaatgccg tttcttctct tgctccggtg 60

cagtcttgg ggaattataa gcgtgtggaa aagaatgaaa aagttgaaaa caatgaggcc 120
gctcttgata gggtagctga gatcaagaaa gcgattgaaa ataaccagta taaaatcaac 180
ttgcatgaga cttctcacaa aatggcaaag gatttattgg ggataagcta g 231

<210> 6

<211> 76

<212> PRT

<213> Helicobacter pylori

<220>

<221> HP1122

<222> (1)..(76)

<223>

<400> 6

Met Asn Ile Lys Leu Lys Asp Phe Thr Met Ile Asn Ala Val Ser Ser
1 5 10 15

Leu Ala Pro Val Gln Ser Leu Gly Asn Tyr Lys Arg Val Glu Lys Asn
20 25 30

Glu Lys Val Glu Asn Asn Glu Ala Ala Leu Asp Arg Val Ala Glu Ile
35 40 45

Lys Lys Ala Ile Glu Asn Asn Gln Tyr Lys Ile Asn Leu His Glu Thr
50 55 60

Ser His Lys Met Ala Lys Asp Leu Leu Gly Ile Ser
65 70 75

<210> 7

<211> 768

<212> DNA

<213> Helicobacter pylori

<220>

<221> HP1032

<222> (1)..(768)

<223> The ORF of anti sigma 28 factor

<400> 7
atgattttga tgatggaaaa tagaatgccc aaaggaattc aaaaaactga aacaagcgaa 60
aaaaatatag aaaagggtttt gaacgcctat gataagcaac aacaccacca tcaagacgat 120
ctcgcttattc agtatttacc agccgtgcgc gccatggcgt ttctgtctaaa agagcgcttg 180
cccagctcta ttgattttaa cgatctggtt tctattggca ctgaagaatt gattaaatta 240
gccaggcggtt atgagagcgc gttaaacgat tcttttggg ggtatgcgaa gactcgtgtc 300
aatggggcga tggtagatta tttgcgtct ttagatgtga tttctcgctc tagcaggaaa 360
ctcattaaaaa gcattgatat taaaatcacc aaacacccctt atgagcatgg gaaagagcct 420
agcgatgcgt atttagcgca aacttttaggc gaaaatattg aaaaaattaa agaagccaaa 480
acggcttcag atatttatgc gtttgtgcca atagatgaac aattcaatgc gattgagcaa 540
gatgaaatca ctaaaaaaat tgaagcagaa gagttgttag agcatgtcca aaaagcgctg 600
aatcaaatga gcaaagagaga gcaaattcctt atccagcttt attactttga agagttgaat 660
ttgagcgaga taaaagagat tttaggcatt actgaatcgc gcatttctca aatcattaaa 720
gaagtgatta aaaaggtgcg taaatcctt ggagtggatc atggctga 768

<210> 8

<211> 255

<212> PRT

<213> Helicobacter pylori

<220>

<221> HP1032

<222> (1)..(255)

<223>

<400> 8

Met	Ile	Leu	Met	Met	Glu	Asn	Arg	Met	Pro	Lys	Gly	Ile	Gln	Lys	Thr
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Glu Thr Ser Glu Lys Asn Ile Glu Lys Val Leu Asn Ala Tyr Asp Lys
20 25 30

Gln Gln His His His Gln Asp Asp Leu Ala Ile Gln Tyr Leu Pro Ala
35 40 45

Val Arg Ala Met Ala Phe Arg Leu Lys Glu Arg Leu Pro Ser Ser Ile
50 55 60

Asp Phe Asn Asp Leu Val Ser Ile Gly Thr Glu Glu Leu Ile Lys Leu
65 70 75 80

Ala Arg Arg Tyr Glu Ser Ala Leu Asn Asp Ser Phe Trp Gly Tyr Ala
85 90 95

Lys Thr Arg Val Asn Gly Ala Met Leu Asp Tyr Leu Arg Ser Leu Asp
100 105 110

Val Ile Ser Arg Ser Ser Arg Lys Leu Ile Lys Ser Ile Asp Ile Glu
115 120 125

Ile Thr Lys His Leu Asn Glu His Gly Lys Glu Pro Ser Asp Ala Tyr
130 135 140

Leu Ala Gln Thr Leu Gly Glu Asn Ile Glu Lys Ile Lys Glu Ala Lys
145 150 155 160

Thr Ala Ser Asp Ile Tyr Ala Leu Val Pro Ile Asp Glu Gln Phe Asn
165 170 175

Ala Ile Glu Gln Asp Glu Ile Thr Lys Lys Ile Glu Ala Glu Glu Leu
180 185 190

Leu Glu His Val Gln Lys Ala Leu Asn Gln Met Ser Glu Arg Glu Gln
195 200 205

Ile Leu Ile Gln Leu Tyr Tyr Phe Glu Glu Leu Asn Leu Ser Glu Ile
210 215 220

Lys Glu Ile Leu Gly Ile Thr Glu Ser Arg Ile Ser Gln Ile Ile Lys
225 230 235 240

Glu Val Ile Lys Lys Val Arg Lys Ser Leu Gly Val Asp His Gly
245 250 255

<210> 9
<211> 65
<212> PRT
<213> *Campylobacter jejuni*

<220>
<221> Cj1464
<222> (1)..(65)
<223> Cj1464 protein

<400> 9
Met Ile Asn Pro Ile Gln Gln Ser Tyr Val Ala Asn Thr Ala Leu Asn
1 5 10 15

Thr Asn Arg Ile Asp Lys Glu Thr Lys Thr Asn Asp Thr Gln Lys Thr
20 25 30

Glu Asn Asp Lys Ala Ser Lys Ile Ala Glu Gln Ile Lys Asn Gly Thr
35 40 45

Tyr Lys Ile Asp Thr Lys Ala Thr Ala Ala Ile Ala Asp Ser Leu
50 55 60

Ile
65

<210> 10
<211> 107
<212> PRT
<213> *Pseudomonas aeruginosa*

<220>
<221> PA3351
<222> (1)..(107)
<223> PA3351 protein

<400> 10

Met Val Ile Asp Phe Asn Arg Leu Asn Pro Gly Ser Thr Pro Ala Thr
1 5 10 15

Thr Gly Arg Thr Gly Ser Thr Ala Ala Gly Arg Pro Asp Ala Thr Gly
20 25 30

Ala Asp Lys Ala Gly Gln Ala Ala Thr Ser Ala Pro Lys Ser Gly Glu
35 40 45

Ser Val Gln Ile Ser Glu Thr Ala Gln Asn Met Gln Lys Val Thr Asp
50 55 60

Gln Leu Gln Thr Leu Pro Val Val Asp Asn Asp Lys Val Ala Arg Ile
65 70 75 80

Lys Gln Ala Ile Ala Asp Gly Thr Tyr Gln Val Asp Ser Glu Arg Val
85 90 95

Ala Ser Lys Leu Leu Asp Phe Glu Ser Gln Arg
100 105

<210> 11

<211> 32

<212> DNA

<213> Artificial sequence

<220>

<223> primer PCR 1550

<400> 11

catgagatct ctataaaaac agagcggcta aa 32

<210> 12

<211> 42

<212> DNA

<213> Artificial sequence

<220>

<223> primer PCR 1551

<400> 12
tgacgcata actagtcata tggatgttcct tgtttttga tg 42

<210> 13

<211> 42

<212> DNA

<213> artificial sequence

<220>

<223> linker

<400> 13
tgacgcata actagtcata tggatgttcct tgtttttga tg 42

<210> 14

<211> 22

<212> DNA

<213> artificial sequence

<220>

<223> primer PCR 2386

<400> 14
gctcggtacc cgggtgacta ac 22

<210> 15

<211> 27

<212> DNA

<213> artificial sequence

<220>

<223> primer PCR 2387

<400> 15
cttccccccgg gcattattcc ctccagg 27

<210> 16
<211> 28
<212> DNA
<213> artificial sequence

<220>
<223> primer PCR 2388
<400> 16
ccatcgatct cacacgctta gacgctaa 28

<210> 17
<211> 29
<212> DNA
<213> artificial sequence

<220>
<223> primer PCR 2389
<400> 17
ggactagtct aagttaaaaag ccttaagat 29

<210> 18
<211> 26
<212> DNA
<213> artificial sequence

<220>
<223> primer PCR 2391
<400> 18
cgcggatcct tttaagaaag gtgttt 26

<210> 19
<211> 27
<212> DNA

<213> artificial sequence

<220>

<223> primer PCR 2392

<400> 19

ttttctgcag gccaacgccc ttttgg

27

<210> 20

<211> 32

<212> DNA

<213> artificial sequence

<220>

<223> primer PCR 1777

<400> 20

gggaattcca tatgaatatac aaattaaagg at

32

<210> 21

<211> 35

<212> DNA

<213> Artificial sequence

<220>

<223> primer PCR 1669

<400> 21

atcgcggttc ccttagcttat ccccaataaa tcctt

35

<210> 22

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> primer PCR 1783

<400> 22
atttgcggcc gcaaataatca aattaaagga tttt 34

<210> 23
<211> 32
<212> DNA
<213> artificial sequence

<220>

<223> primer PCR 1784

<400> 23
ggactagatc tgcttatccc caataaatcc tt 32

<210> 24
<211> 37
<212> DNA
<213> artificial sequence

<220>

<223> primer PCR 1585

<400> 24
atttgcggcc gcatcttgg ggtagagga tttgcat 37

<210> 25
<211> 35
<212> DNA
<213> artificial sequence

<220>

<223> primer PCR 1586

<400> 25
ggactagatc tacgcttgct tggtttaaggc atttt 35

<210> 26

<211> 20
<212> DNA
<213> artificial sequence

<220>
<223> oligonucleotide 2564

<400> 26
aatgtcgtt cggcttctga 20

<210> 27
<211> 18
<212> DNA
<213> artificial sequence

<220>
<223> oligonucleotide 2565

<400> 27
taaaaagcctt aagatatt 18

<210> 28
<211> 18
<212> DNA
<213> artificial sequence

<220>
<223> oligonucleotide H276f

<400> 28
ctatgacggg tatccggc 18

<210> 29
<211> 19
<212> DNA
<213> artificial sequence

<220>

<223> oligonucleotide H676r

<400> 29

attccaccta cctctccca

19